

What is claimed is:

1. An image processing program for realizing on a computer:
 - a statistics extracting function for extracting a mean value and a standard deviation of a feature quantity of an image;
 - an image condition judging function for judging an image condition, based on the mean value and the standard deviation extracted by said statistics extracting function;
 - a correction information creating function for creating image correction information in the image condition judged by said image condition judging function, based on the mean value and the standard deviation extracted by said statistics extracting function; and
 - an image correcting function for correcting the image, based on the image correction information created by said correction information creating function.
2. An image processing program according to claim 1,
 - wherein said image condition judging function judges the image condition of said image through a two-dimensional normal distribution probability function for calculating the probability that an image belongs to each image condition, in which the mean value and the standard deviation of the image feature quantity are set to variables.
3. An image processing program according to claim 2,
 - wherein when the maximum value of said probability is larger than a predetermined value, said image condition judging function judges that the image condition which becomes said probability is the image condition of said image.
4. An image processing program according to claim 2,
 - wherein when the maximum value of said probability is a predetermined value or less, said image condition judging function judges that said image belongs to a plurality of image conditions.
5. An image processing program according to claim 4,
 - wherein when it is judged by said image condition judging function that said image belongs to the plurality of image conditions, said correction information creating

function integrates the image correction information in the respective image conditions, corresponding to said probability, to create the image correction information.

6. An image processing program according to claim 1,

wherein said statistics extracting function multiplies the mean value and the standard deviation of the image feature quantity in each area obtained by dividing the image into a plurality of areas, by a weighting value corresponding to a difference between the maximum value and the minimum value of the image feature quantity in each area, and sets the sum of said multiplied values as the mean value and the standard deviation of the image feature quantity.

7. An image processing program according to claim 1, comprising:

an input function for inputting whether or not the image corrected by said image correcting function is an intended image;

an input result storing function for storing a result input through said input function; and

a probability display function for displaying the probability that said corrected image is the intended image, based on the input result stored by said input result storing function.

8. A computer-readable recording medium recorded with an image processing program for realizing on a computer:

a statistics extracting function for extracting a mean value and a standard deviation of a feature quantity of an image;

an image condition judging function for judging an image condition, based on the mean value and the standard deviation extracted by said statistics extracting function;

a correction information creating function for creating image correction information in the image condition judged by said image condition judging function, based on the mean value and the standard deviation extracted by said statistics extracting function; and

an image correcting function for correcting the image, based on the image correction information created by said correction information creating function.

9. A computer-readable recording medium recorded with an image processing program according to claim 8,

wherein said image condition judging function judges the image condition of said image through a two-dimensional normal distribution probability function for calculating the probability that an image belongs to each image condition, in which the mean value and the standard deviation of the image feature quantity are set to variables.

10. A computer-readable recording medium recorded with an image processing program according to claim 9,

wherein when the maximum value of said probability is larger than a predetermined value, said image condition judging function judges that the image condition which becomes said probability is the image condition of said image.

11. A computer-readable recording medium recorded with an image processing program according to claim 9,

wherein when the maximum value of said probability is a predetermined value or less, said image condition judging function judges that said image belongs to a plurality of image conditions.

12. A computer-readable recording medium recorded with an image processing program according to claim 11,

wherein when it is judged by said image condition judging function that said image belongs to the plurality of image conditions, said correction information creating function integrates the image correction information in the respective image conditions, corresponding to said probability, to create the image correction information.

13. A computer-readable recording medium recorded with an image processing program according to claim 8,

wherein said statistics extracting function multiplies the mean value and the standard deviation of the image feature quantity in each area obtained by dividing the image into a plurality of areas, by a weighting value corresponding to a difference between the maximum value and the minimum value of the image feature quantity in each area, and sets the sum of said multiplied values as the mean value and the

standard deviation of the image feature quantity.

14. A computer-readable recording medium recorded with an image processing program according to claim 8, comprising:

an input function for inputting whether or not the image corrected by said image correcting function is an intended image;

an input result storing function for storing a result input through said input function; and

a probability display function for displaying the probability that said corrected image is the intended image, based on the input result stored by said input result storing function.

15. An image processing method comprising:

a statistics extracting step for extracting a mean value and a standard deviation of a feature quantity of an image;

an image condition judging step for judging an image condition, based on the mean value and the standard deviation extracted by said statistics extracting step;

a correction information creating step for creating image correction information in the image condition judged by said image condition judging step, based on the mean value and the standard deviation extracted by said statistics extracting step; and

an image correcting step for correcting the image, based on the image correction information created by said correction information creating step.

16. An image processing apparatus comprising:

statistics extracting means for extracting a mean value and a standard deviation of a feature quantity of an image;

image condition judging means for judging an image condition, based on the mean value and the standard deviation extracted by said statistics extracting means;

correction information creating means for creating image correction information in the image condition judged by said image condition judging means, based on the mean value and the standard deviation extracted by said statistics extracting means; and

image correcting means for correcting the image, based on the image correction information created by said correction information creating means.